

Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application:

1. (amended) A rear suspension system for a motorcycle comprising:
 - a pivot pin adapted to engage a motorcycle frame;
 - a lower member mechanically connected to the pivot pin and extending from the pivot pin to a rear axle assembly, the rear axle assembly being mechanically associated with the rear axle;
 - an upper member connected to the lower member and extending upwards from the lower member and over a rear wheel of the motorcycle, the upper member being connected to an air spring assembly by a pivoting connection; and
 - wherein the air spring assembly is adapted to be connected to the motorcycle frame.
2. (previously presented) The rear suspension system of claim 1, wherein a plate of the air spring assembly is rotatably connected to the upper member.
3. (original) The rear suspension system of claim 1, wherein a vertical member extends between the lower member and the upper member.
4. (original) The rear suspension system of claim 3, wherein the vertical member is attached to an inner portion of the lower member and an inner portion of the upper member.

5. (original) The rear suspension system of claim 1, further comprising a hydraulic damper disposed between the motorcycle frame and the rear suspension system.

6. (original) The rear suspension system of claim 1, wherein the air spring assembly is attached to an upper portion of the upper member.

7. (original) The rear suspension system of claim 1, wherein the lower member includes a hole to accommodate a drive shaft.

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21. (previously presented) The rear suspension system of claim 1, wherein the pivoting connection is a yoke.

22. (previously presented) The rear suspension system of claim 21, wherein the yoke is connected to a flange disposed on the upper member, and wherein the yoke pivots with respect to the flange.

23. (previously presented) A rear suspension system for a motorcycle comprising:
a swing arm assembly configured for attachment to a motorcycle frame;
the swing arm assembly including a pivot pin configured to cooperate with the motorcycle frame and an air bag assembly disposed above the pivot pin;
the air bag assembly including a forward mounting plate configured for attachment to the motorcycle frame, and a rear mounting plate attached to an upper portion of the swing arm assembly;
a bladder capable of deforming disposed between the forward mounting plate and the rear mounting plate;

wherein the bladder is attached to an outer radial surface of the forward mounting plate and an outer radial surface of the rear mounting plate.

24. (previously presented) The rear suspension system of claim 23, wherein the bladder is mounted to the forward plate using a hose clamp.

25. (previously presented) The air spring assembly of claim 23, wherein the bladder is made of an elastomeric material.

26. (previously presented) A rear suspension system for a motorcycle comprising:

a lower arm and an upper arm;

an air spring system disposed between the frame and the upper arm;

the air spring system including an air bladder disposed between a front plate and a rear plate; and

wherein the air bladder having a forward bulge portion disposed forward of a front plate.

27. (previously presented) The rear suspension system according to claim 26, wherein the forward bulge portion is disposed forward of a rear surface of the front plate.

28. (previously presented) The rear suspension system according to claim 26, wherein the air bladder has a rearward bulge portion disposed rearward of a rear plate.

29. (previously presented) The rear suspension system according to claim 26, wherein the rearward bulge portion is disposed rearward of a front surface of the rear plate.

30. (previously presented) The rear suspension system according to claim 26, wherein the air spring system includes a rear plate and wherein the rear plate can pivot with respect to the rear suspension.

31. (previously presented) A rear suspension system for a motorcycle comprising:
an air spring system disposed between the frame and a swing arm assembly;
the air spring system including an air bladder disposed between a front plate and a rear plate; and

wherein the front plate is misaligned with the rear plate when the air bag is in a compressed condition.

32. (previously presented) The rear suspension system according to claim 31, wherein the rear plate has a first horizontal distance from the front plate in an uncompressed condition and the rear plate as a second horizontal distance from the front plate in a compressed condition; and wherein the second distance is greater than the first distance.